

# **ABSTRACT**

The invention is intended to obtain a rotating electric machine with a built-in control device in which  
5 the control device is kept from receiving heat from a main body of the rotating electric machine and the control device can be cooled in a desirable fashion. A heat sink 13 on which switching devices 12 of a control device 400 are mounted is attached to a rear bracket 6 by means of  
10 conductive studs 300 with a particular spacing provided in a left-to-right direction of FIG. 2. The heat sink 13 is cooled by a flow of cooling air induced by an unillustrated fan. Since the control device 400 is attached to the rear bracket 6 of which temperature increases with the spacing  
15 provided therefrom, it is possible to suppress heat transfer from the rear bracket 6 and effectively cool the control device 400 through the heat sink 13.